

ABSTRACT

5 A communication system capable of more reliably
collecting monitoring results of monitoring modules of
end terminals and repeaters by a monitoring terminal is
provided. A monitoring terminal 45 transmits a monitoring
result request signal S46a designating an optical
transmission line 10 as a response route via an optical
transmission line 11 to a repeater 42, while a monitoring
10 module 44 of the repeater 42 transmits a monitoring
result response signal S47a indicating the monitoring
result via the optical transmission line 10 to the
monitoring terminal 45. In this case, due to
disconnection, the monitoring terminal 45 does not
15 receive the monitoring result response signal S47a. Next,
the monitoring terminal 45 transmits the monitoring
result request signal S46a designating the optical
transmission line 11 as the response route via the
optical transmission line 11 to the repeater 42. Then,
20 the repeater 42 transmits the monitoring result response
signal S47a via the optical transmission line 11 to the
monitoring terminal 45.

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LIST OF REFERENCES

3... optical amplifier

4, 64, 74, 84... monitoring modules

1, 11... optical transmission line

40, 60, 70, 80, 90... optical communication systems

41a, 41b, 61a, 61b, 71a, 71b, 81a, 81b, 91a, 91b... end
terminals

42, 62, 72, 82, 92... repeaters

45, 65, 75, 85, 95... monitoring terminals

S46a, S66a, S76a, S86a, S96a... monitoring result request
signals

S47a, S67a, S77a, S87a, S97a... monitoring result
response signals

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